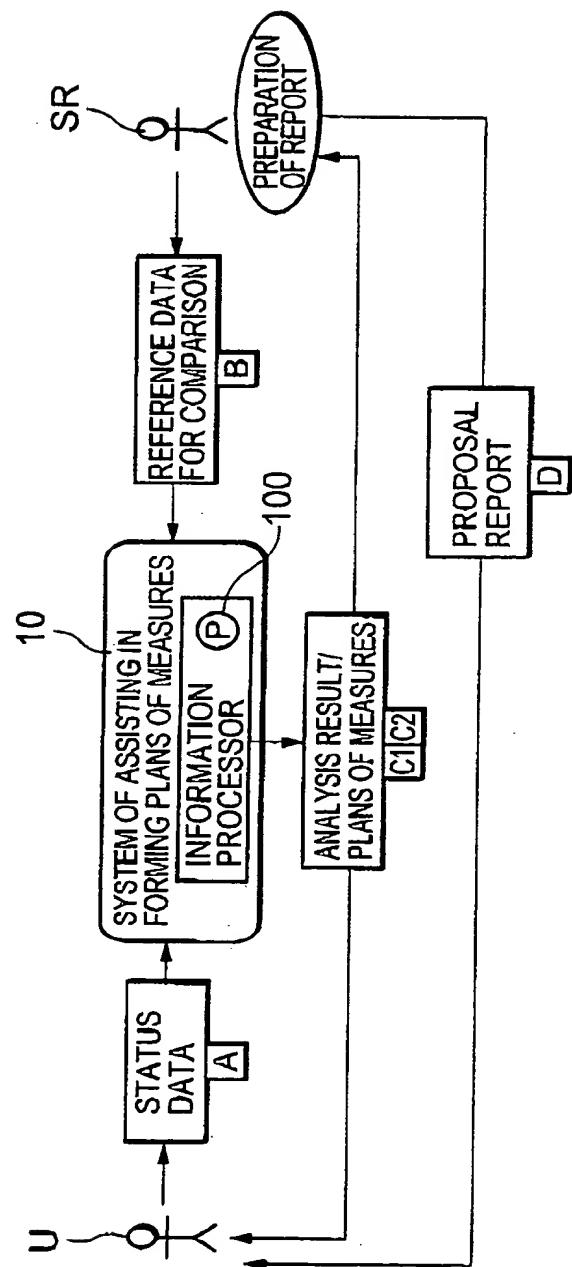




FIG. 1





Replacement Sheet

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FIG.2A

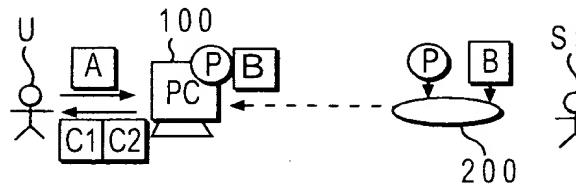


FIG.2B

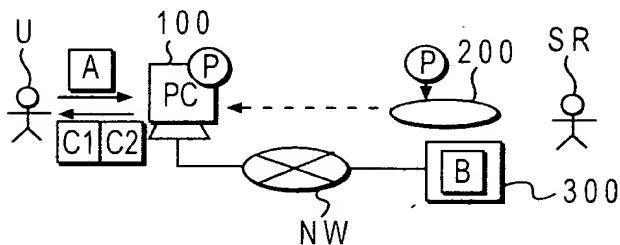


FIG.2C

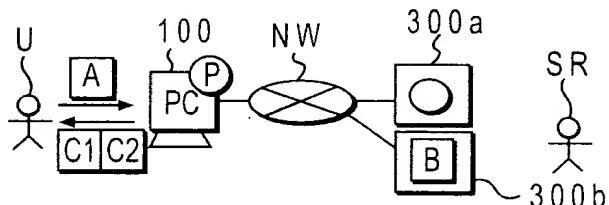


FIG.2D

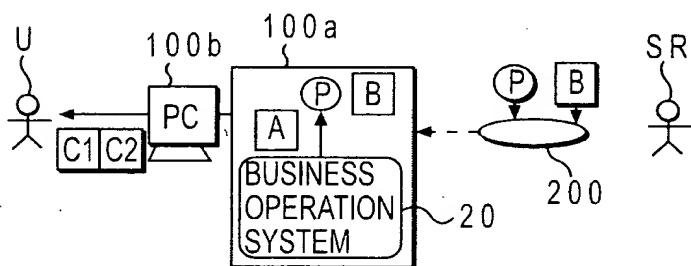


FIG.2E

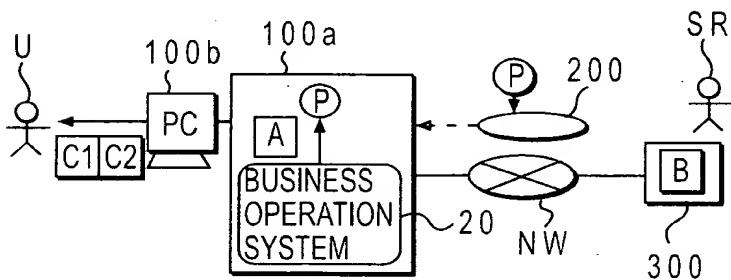


FIG.2F

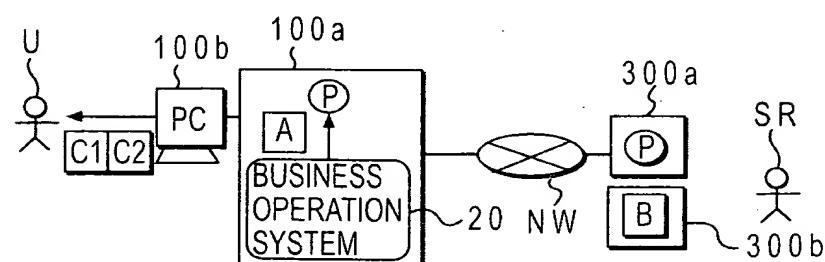
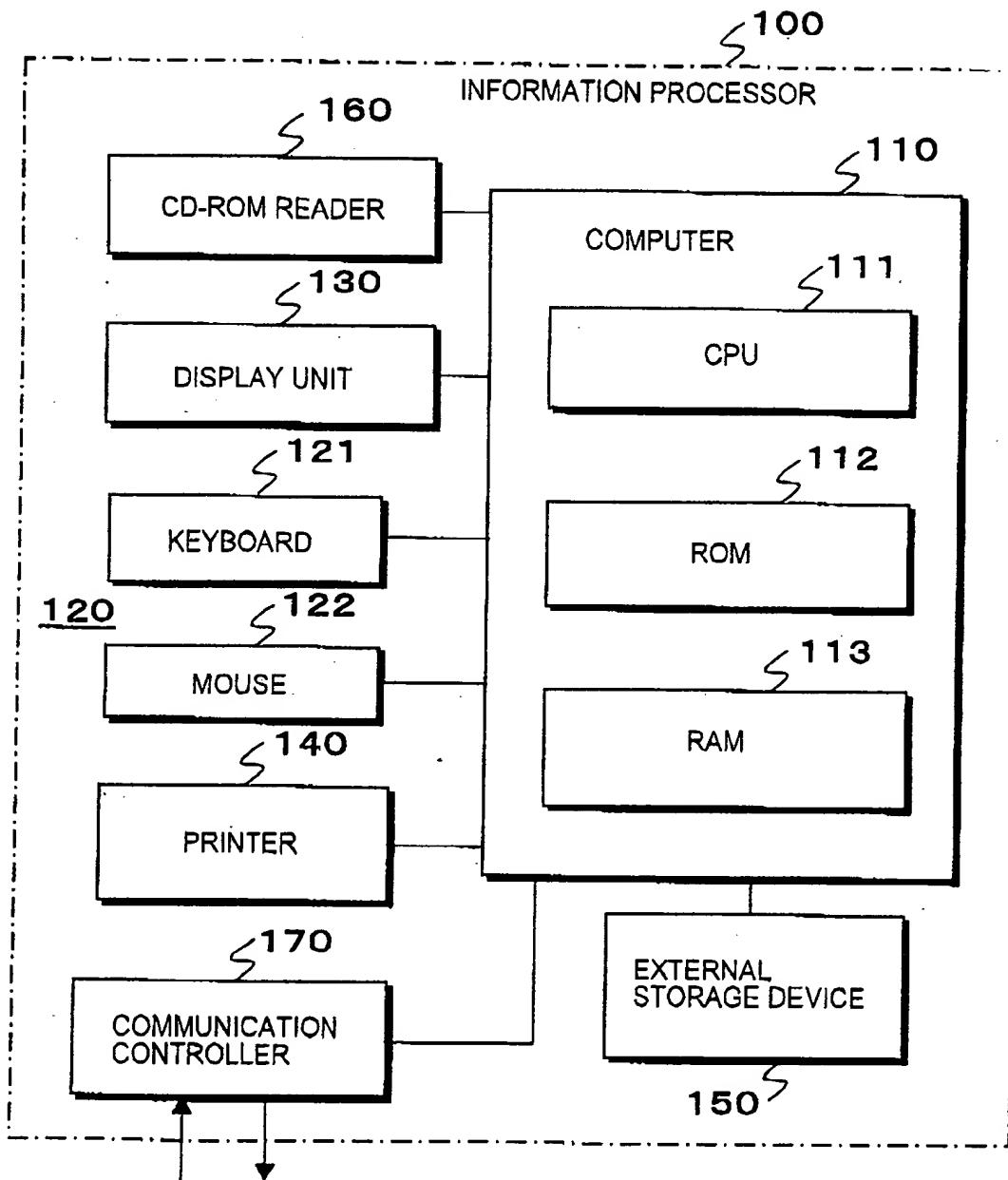




FIG.3





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FIG.4

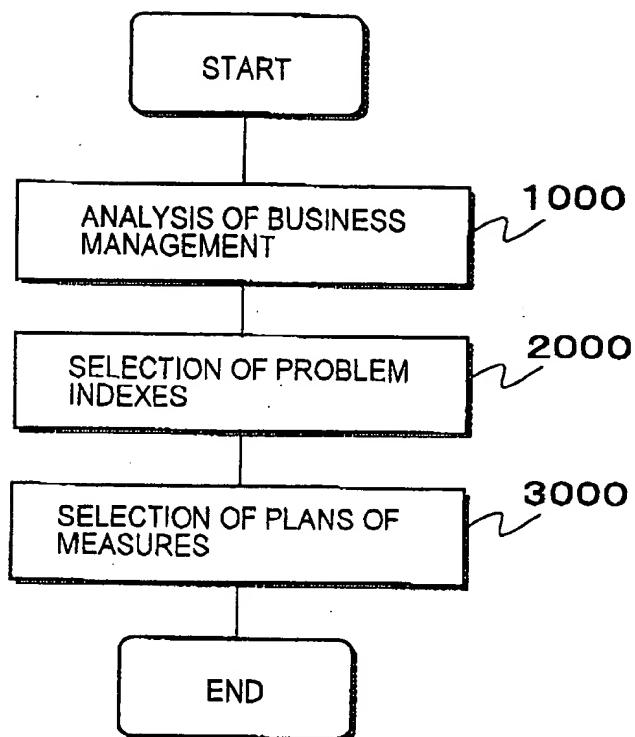
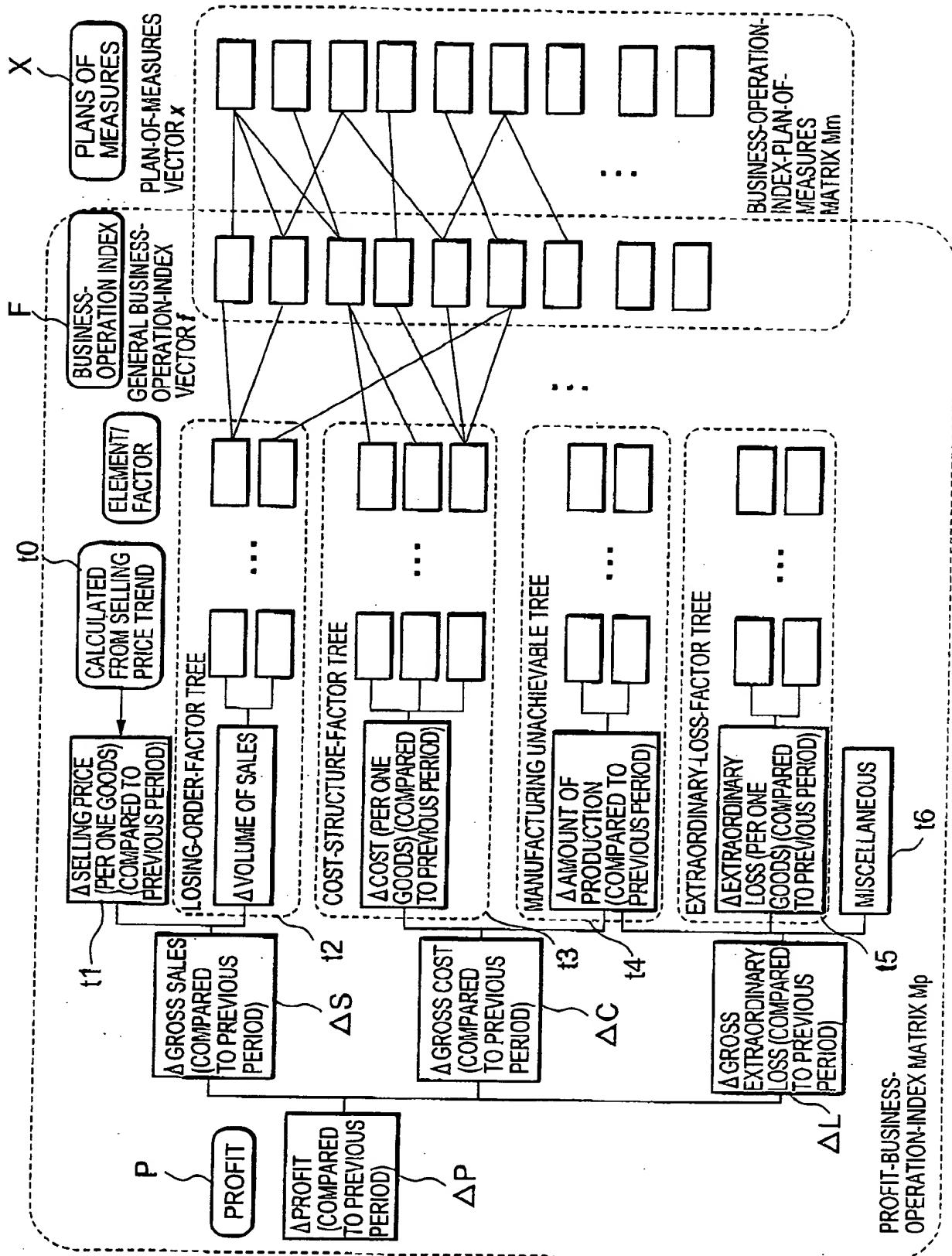




FIG.5





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FIG. 6

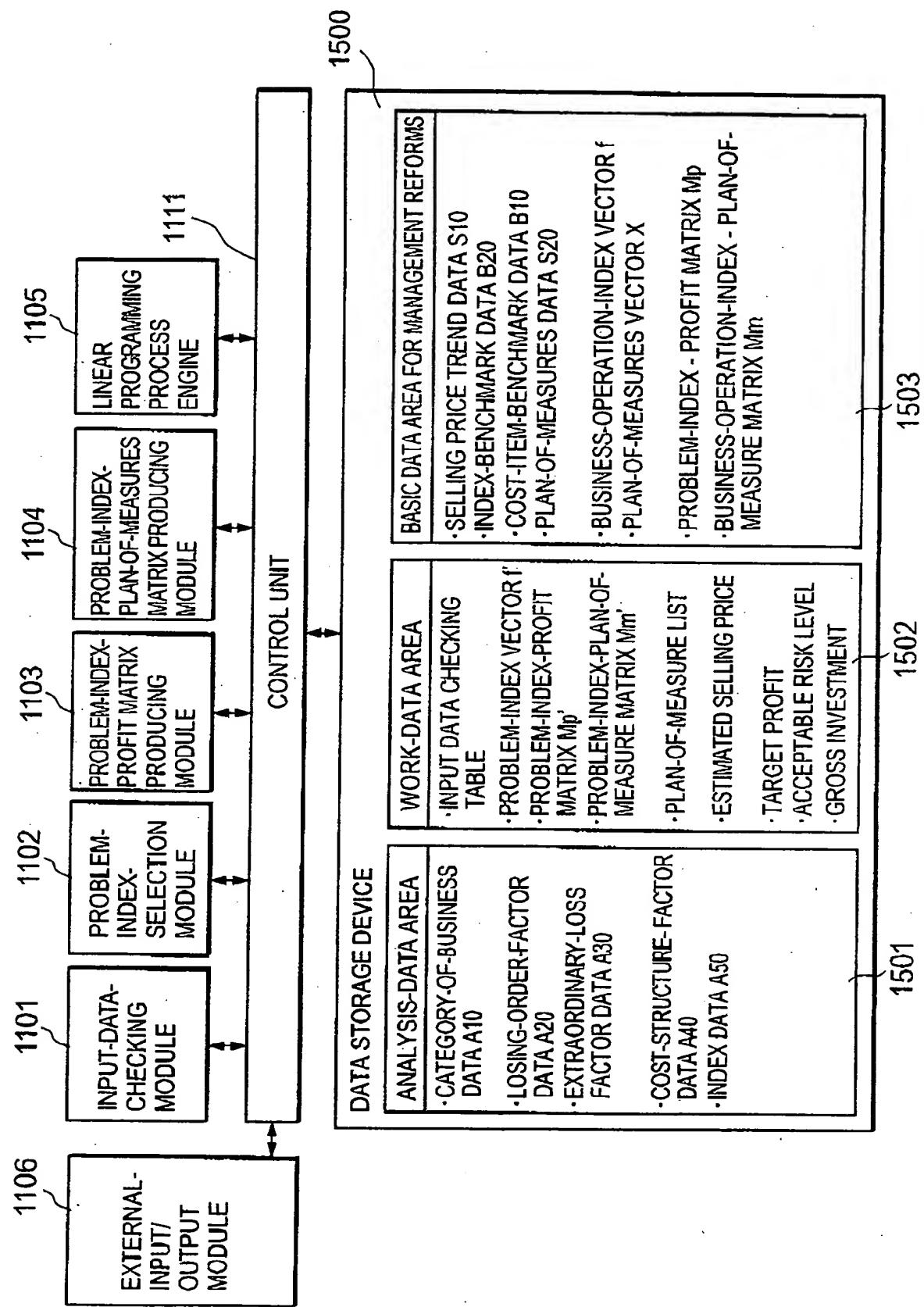
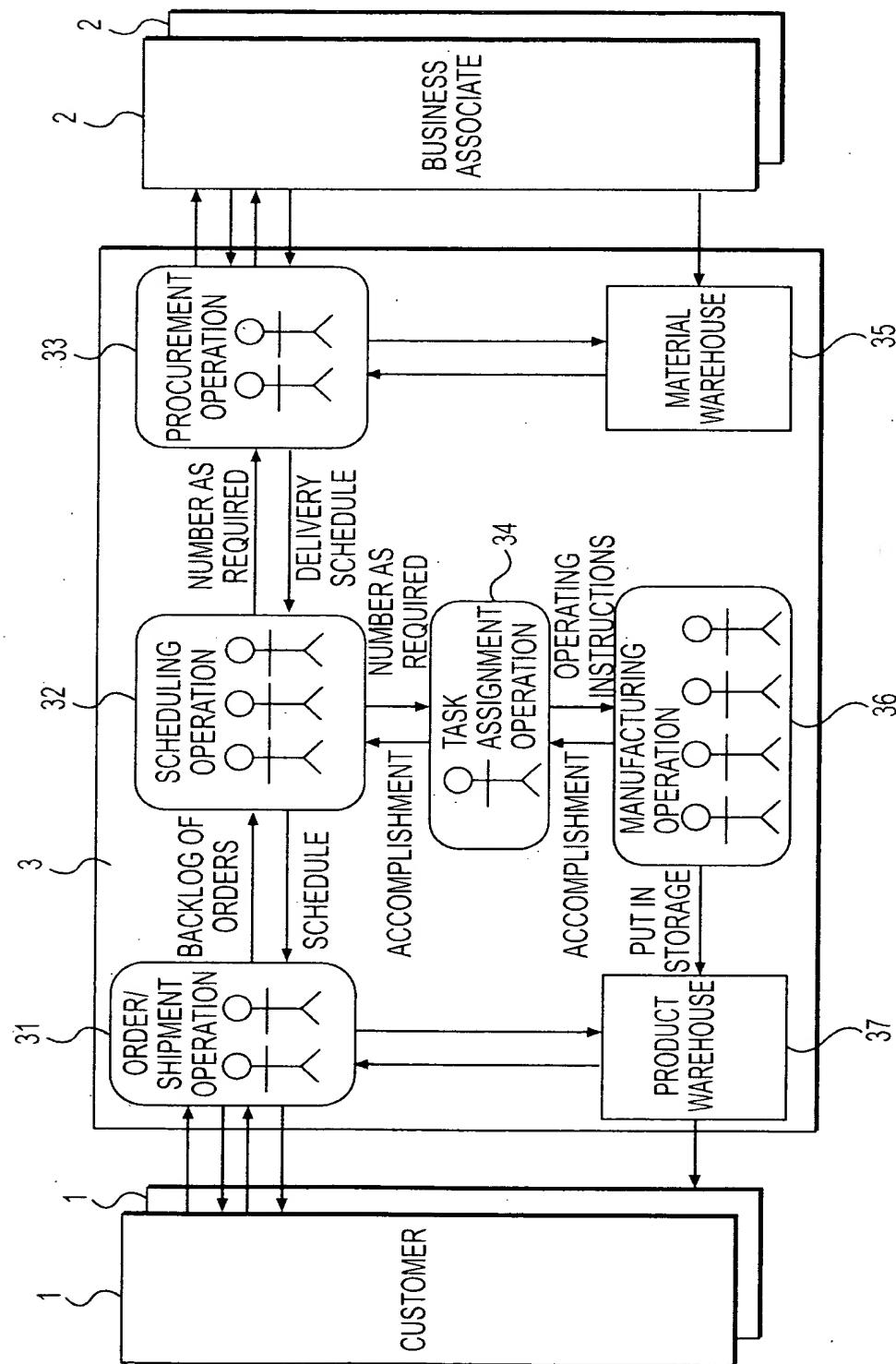




FIG. 7





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FIG.8

A10

	MAJOR DIVISION OF CATEGORY OF BUSINESS	MINOR DIVISION
1	MANUFACTURING INDUSTRIES	HIGH-TECHNOLOGY PRODUCT ASSEMBLING

FIG.9

A20

	LOSING-ORDER FACTOR	RELATIONAL EXPRESSION OF LOSING-ORDER FACTOR
1	DELAY OF PRESENTING ESTIMATE	$\Delta V = \beta \cdot \Delta LTq$

FIG.10

A30

	EXTRAORDINARY-LOSS FACTOR	RELATIONAL EXPRESSION OF EXTRAORDINARY-LOSS-FACTOR
1	TOO LONG SCHEDULING TOTAL LEAD TIME LT	$\Delta L = \alpha \cdot \Delta LTt$



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FIG.11

A40

MAJOR ITEM	MINOR ITEM	RATIO RELATIVE TO SALES (%)
OVERHEAD COST		20
	ORDER/SHIPMENT OPERATION	6
	SCHEDULING OPERATION	8
	PROCUREMENT OPERATION	6
DISPATCH COST		3
	PRODUCT SHIPPING COST	3
DIRECT LABOR COST		12
	TASK ASSIGNMENT OPERATION	2
	MANUFACTURING OPERATION	10
DIRECT MATERIAL COST		60
	MATERIAL A	20
	MATERIAL B	40
TOTAL COST		95
OPERATING PROFIT		5
EXTRAORDINARY LOSS		2
	DISPOSE OF UNDERPERFORMING ASSETS	2
PROFIT OF CURRENT PERIOD		3



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FIG.12

A50

MAJOR ITEM	MINOR ITEM	INDEX VALUE
INDIRECT LABOR EFFICIENCY (SHIPPING QUANTITY/MAN)		
	ORDER/SHIPMENT OPERATION	100
	SCHEDULING OPERATION	20
	PROCUREMENT OPERATION	40
DIRECT LABOR EFFICIENCY (SHIPPING QUANTITY/MAN)		
	TASK ASSIGNMENT OPERATION	100
	MANUFACTURING OPERATION	10
INDIRECT LABOR LEAD TIME (NUMBER OF DAY/TIME)		
	ORDER/SHIPMENT OPERATION	5
	SCHEDULING OPERATION	20
	PROCUREMENT OPERATION	10

FIG.13

S10

RELATIVE SELLING PRICE (BASED ON CURRENT PERIOD BEING TAKEN AS UNITY)	
SECOND PREVIOUS PERIOD	1.25
PREVIOUS PERIOD	1.05
CURRENT PERIOD	1



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FIG.14

B10

MAJOR ITEM	MINOR ITEM	RATIO RELATIVE TO SALES (%)
OVERHEAD COST		5
	ORDER/SHIPMENT OPERATION	1
	SCHEDULING OPERATION	2
	PROCUREMENT OPERATION	1
DISPATCH COST		3
	PRODUCT SHIPPING COST	3
DIRECT LABOR COST		7
	TASK ASSIGNMENT OPERATION	?
	MANUFACTURING OPERATION	?
DIRECT MATERIAL COST		60
	MATERIAL A	20
	MATERIAL B	40
TOTAL COST		85
OPERATING PROFIT		15



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FIG.15

B20

MAJOR ITEM	MINOR ITEM	INDEX VALUE
INDIRECT LABOR EFFICIENCY (SHIPPING QUANTITY/MAN)		
	ORDER/SHIPMENT OPERATION	500
	SCHEDULING OPERATION	100
	PROCUREMENT OPERATION	130
DIRECT LABOR EFFICIENCY (SHIPPING QUANTITY/MAN)		
	TASK ASSIGNMENT OPERATION	500
	MANUFACTURING OPERATION	10
INDIRECT LABOR LEAD TIME (NUMBER OF DAY/TIME)		
	ORDER/SHIPMENT OPERATION	1
	SCHEDULING OPERATION	5
	PROCUREMENT OPERATION	5



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FIG.16

	PLAN OF MEASURES	INVESTMENT COST (M¥)	RISK LEVEL
1	INTRODUCTION OF ORDER MANAGEMENT SUBSYSTEM 1	5	1
2	INTRODUCTION OF ORDER MANAGEMENT SUBSYSTEM 2	7	1
3	INTRODUCTION OF ORDER MANAGEMENT SUBSYSTEM 3	3	2
4	INTRODUCTION OF PRODUCTION MANAGEMENT SUBSYSTEM 1	10	1
5	INTRODUCTION OF PRODUCTION MANAGEMENT SUBSYSTEM 2	10	1
6	INTRODUCTION OF PRODUCTION MANAGEMENT SUBSYSTEM 3	10	2
7	INTRODUCTION OF PROCUREMENT MANAGEMENT SUBSYSTEM 1	3	1
8	INTRODUCTION OF PROCUREMENT MANAGEMENT SUBSYSTEM 2	10	2
9	INTRODUCTION OF PLANT 1 FOR PRODUCTION	10	1
10	INTRODUCTION OF PLANT 2 FOR PRODUCTION	500	3



FIG. 17

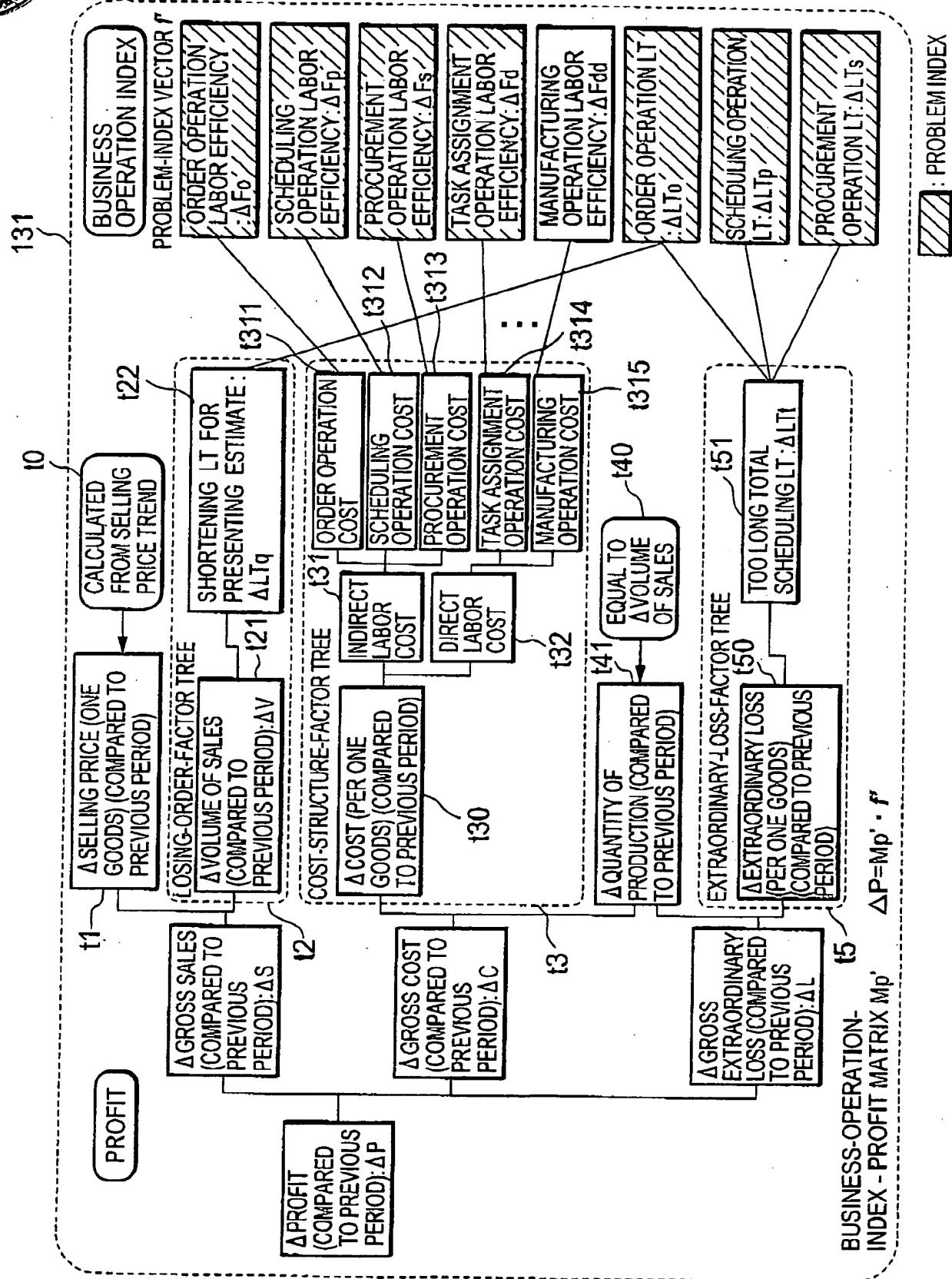
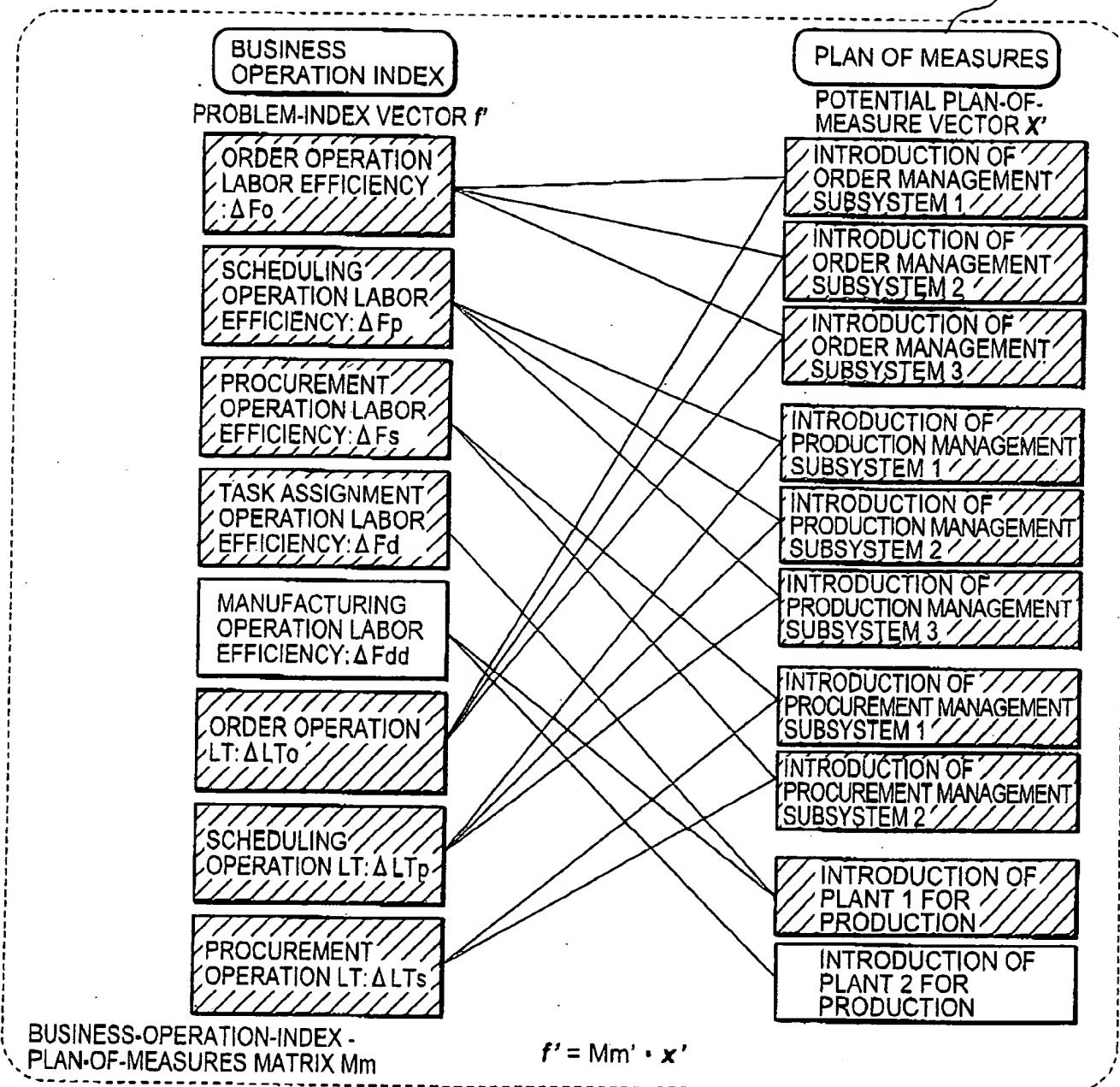




FIG.18

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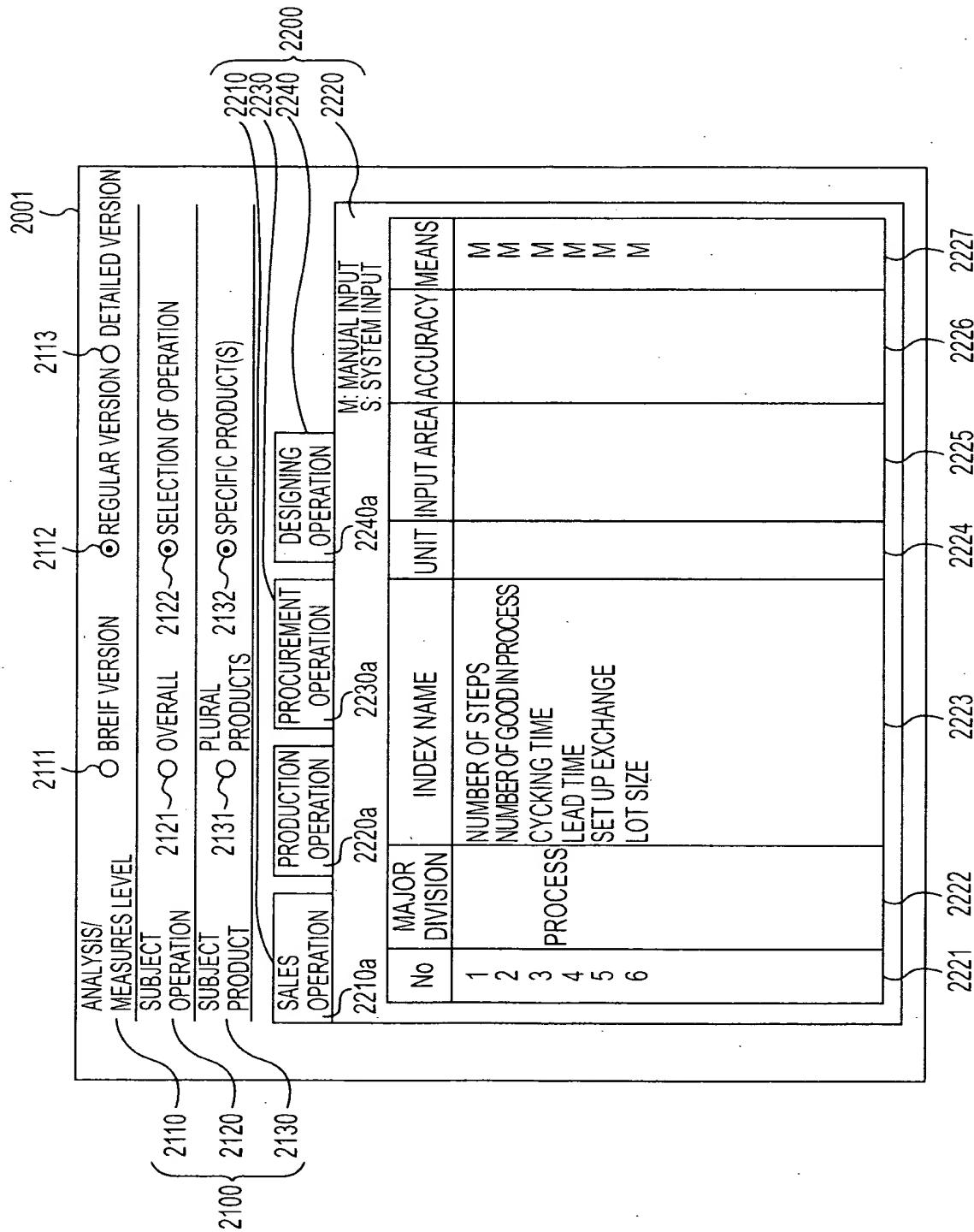




Replacement Sheet

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FIG. 19





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FIG.20

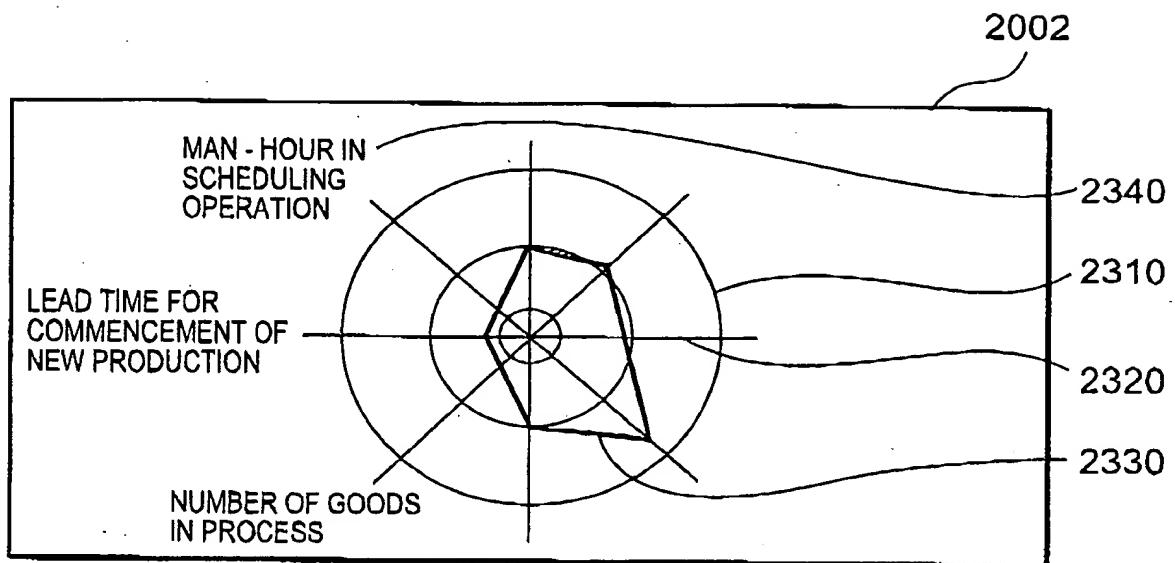


FIG.21

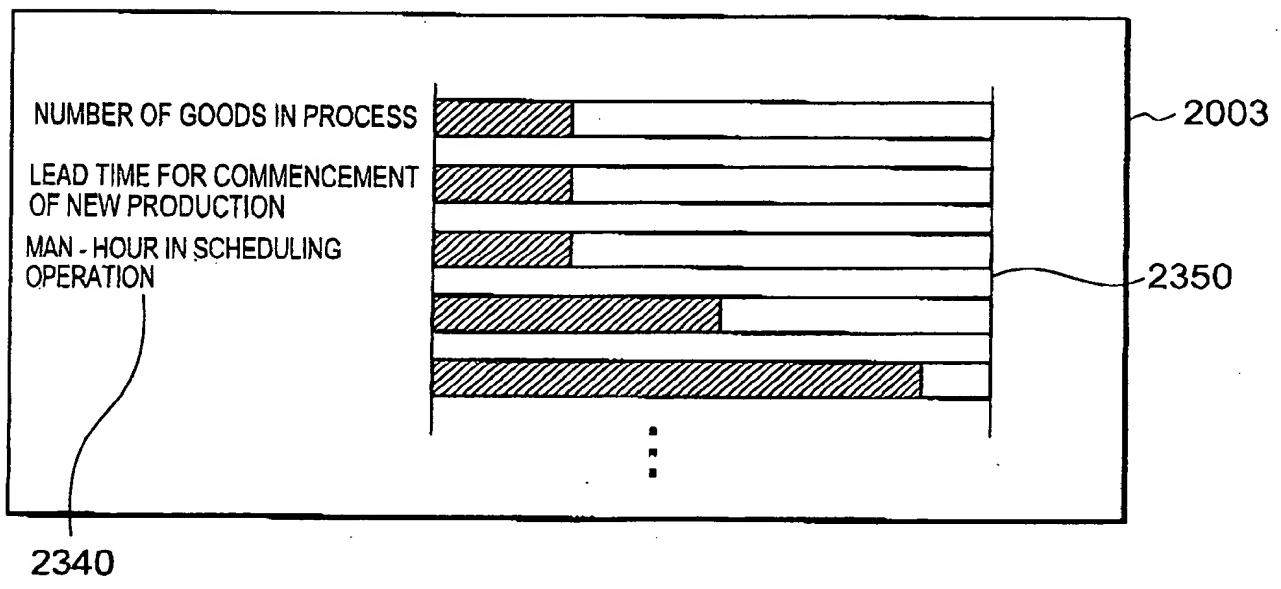
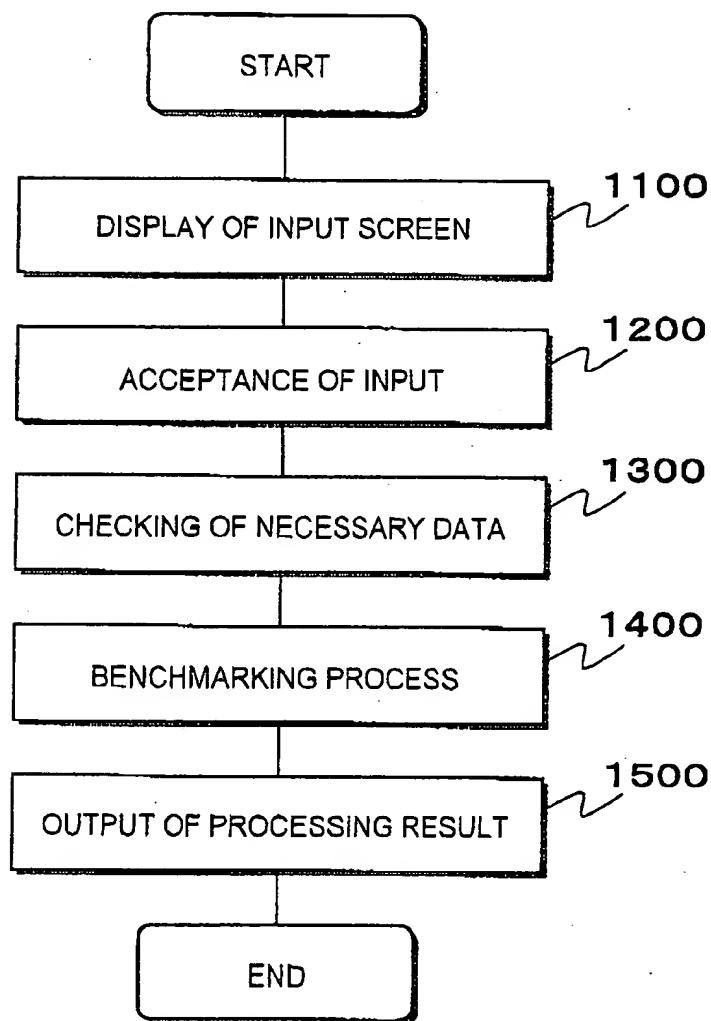


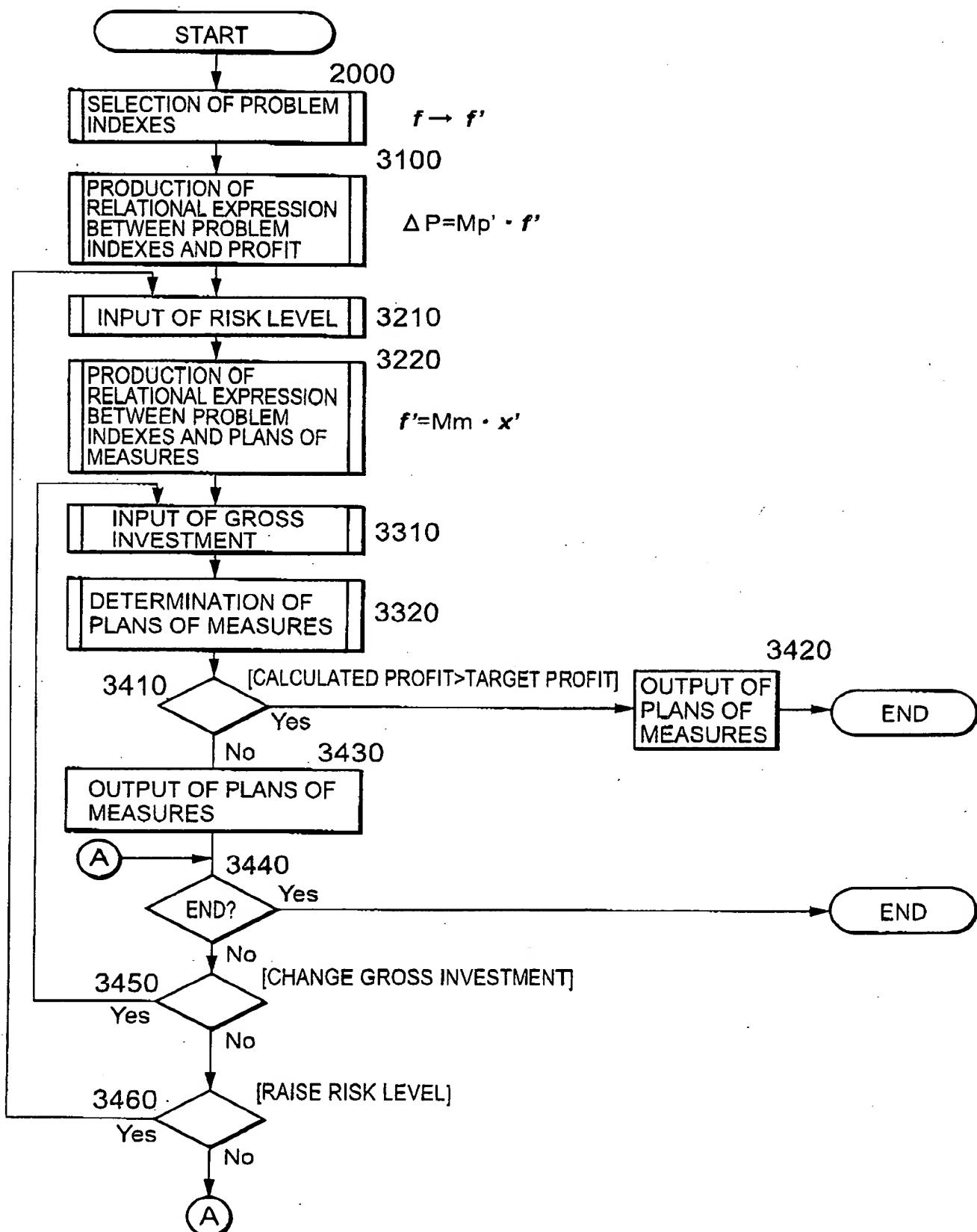
FIG.22





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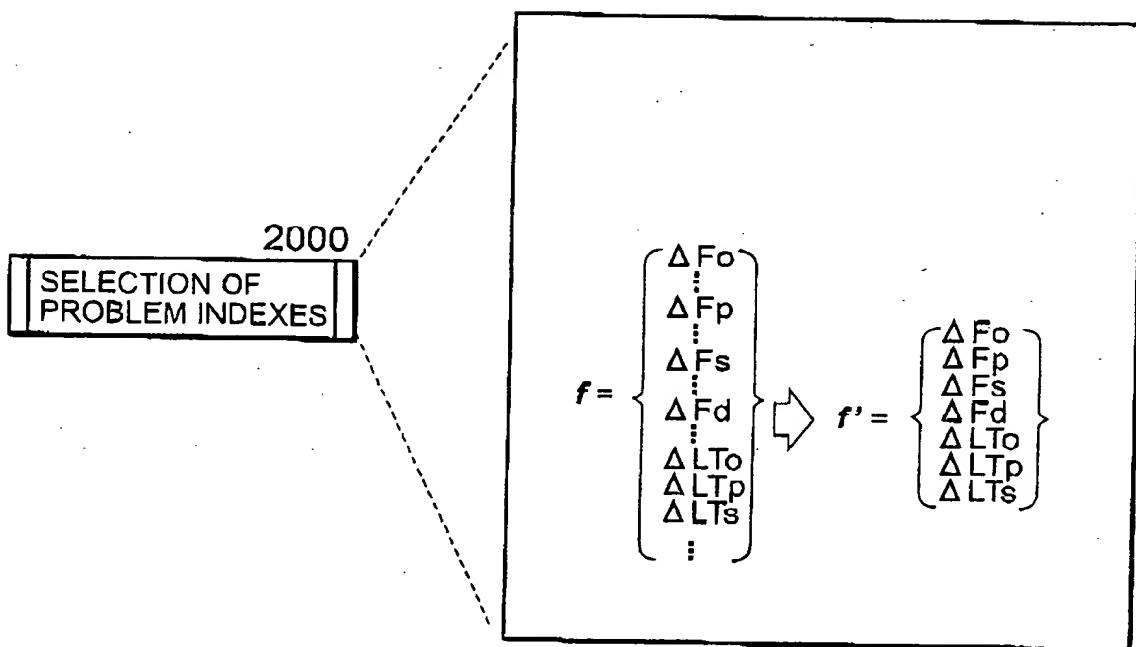
FIG.23





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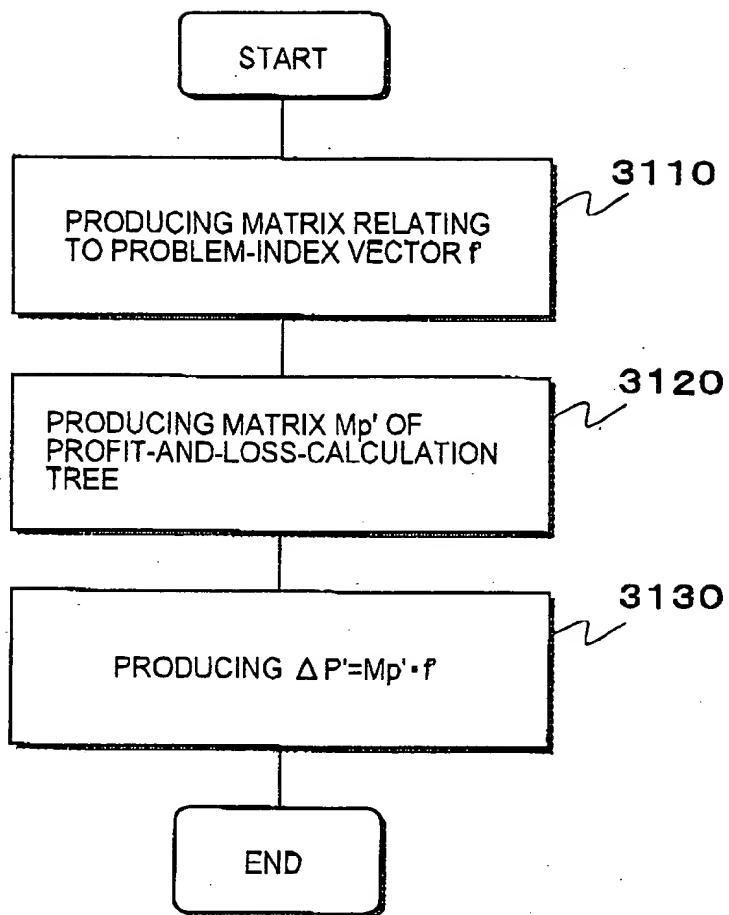
FIG.24





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FIG.25





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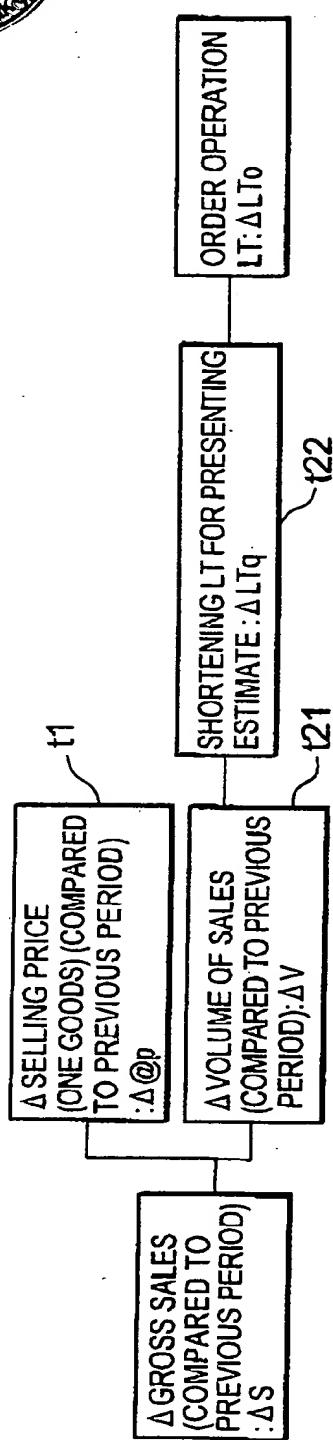
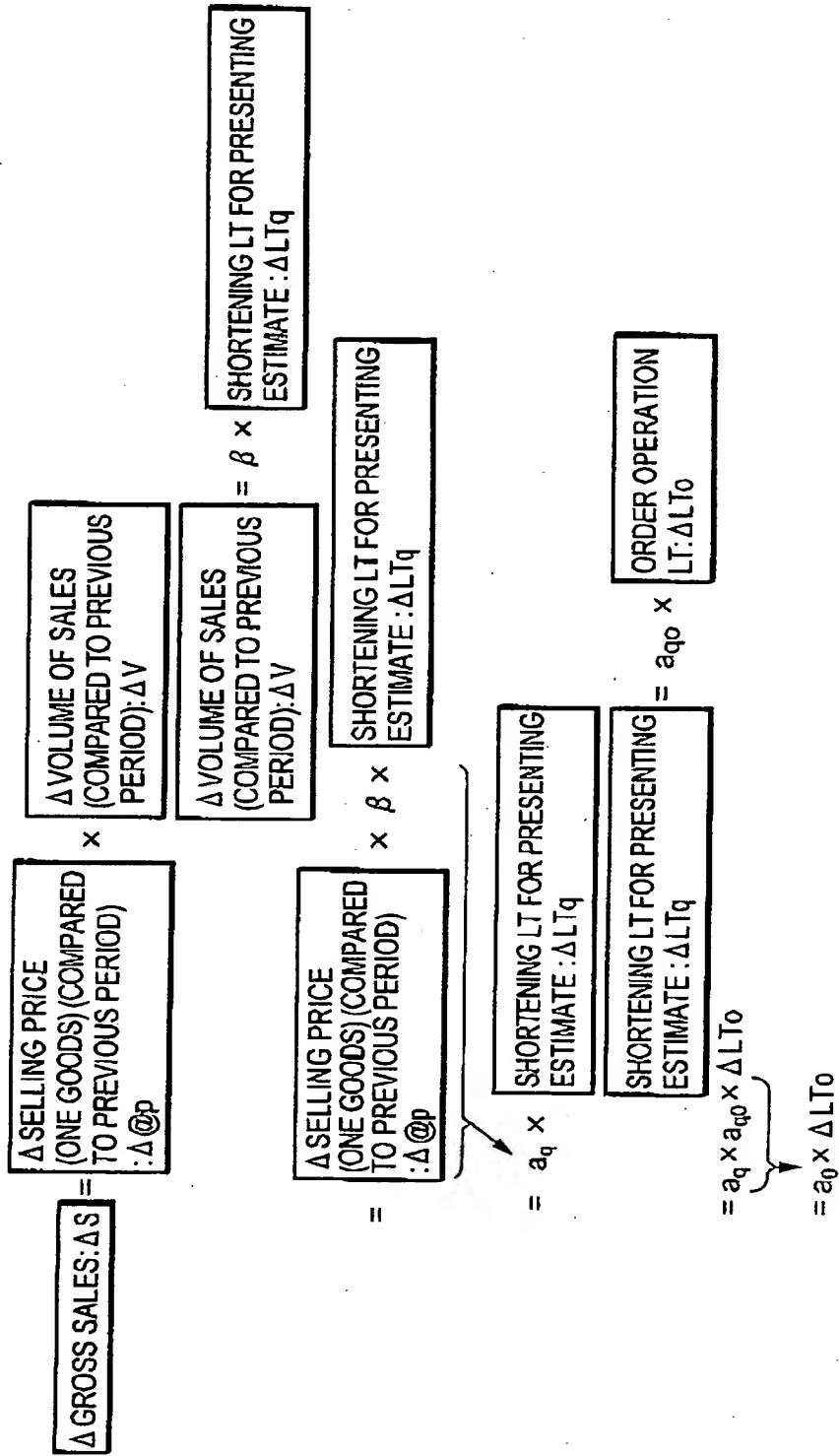


FIG. 26A



WHERE $M_s' = \{0 \ 0 \ 0 \ 0 \ a_0 \ 0 \ 0\}$



FIG.27

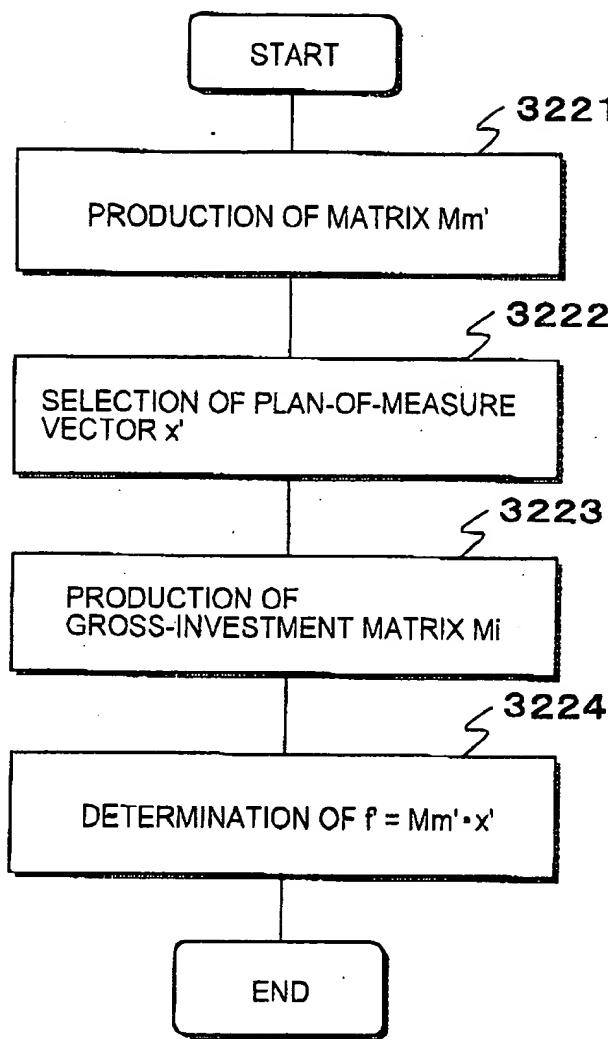




FIG.28

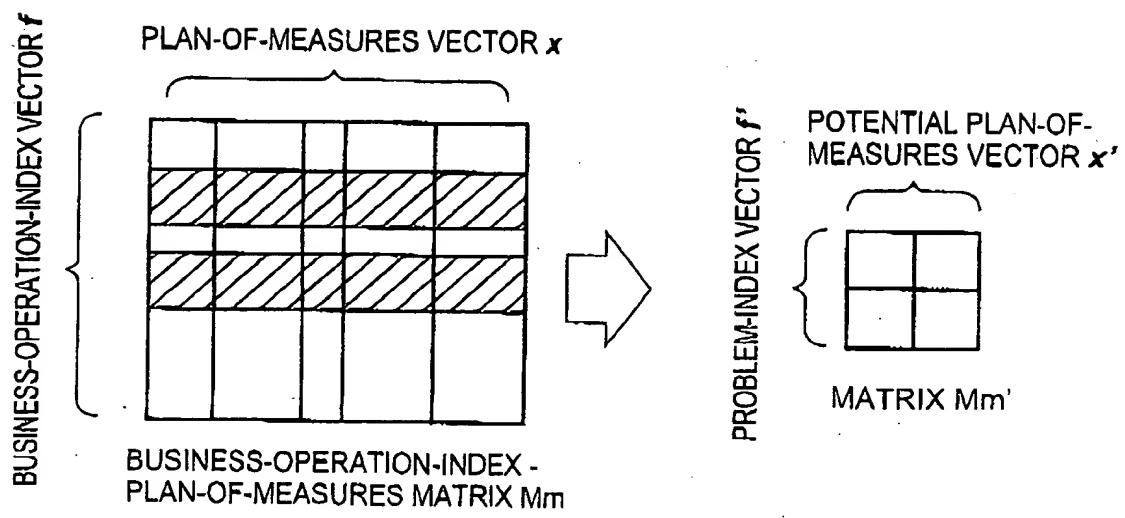




FIG.29

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PLAN OF MEASURES	1	2	3	4	5	6	7	8	9
INVESTMENT COST (M¥)	INTRODUCTION OF ORDER MANAGEMENT SUBSYSTEM 1	INTRODUCTION OF ORDER MANAGEMENT SUBSYSTEM 2	INTRODUCTION OF ORDER MANAGEMENT SUBSYSTEM 3	INTRODUCTION OF PRODUCTION MANAGEMENT SUBSYSTEM 1	INTRODUCTION OF PRODUCTION MANAGEMENT SUBSYSTEM 2	INTRODUCTION OF PRODUCTION MANAGEMENT SUBSYSTEM 3	INTRODUCTION OF PRODUCTION MANAGEMENT SUBSYSTEM 1 FOR PRODUCTION	INTRODUCTION OF PRODUCTION MANAGEMENT SUBSYSTEM 2 FOR PRODUCTION	INTRODUCTION OF PRODUCTION MANAGEMENT SUBSYSTEM 3 FOR PRODUCTION
RISK LEVEL	1	1	2	1	1	2	1	1	1
PROCESSING VARIABLE	x_1 {0, 1}	x_2 {0, 1}	x_3 (0, 1)	x_4 (0, 1)	x_5 (0, 1)	x_6 (0, 1)	x_7 (0, 1)	x_8 (0, 1)	x_9 (0, 1)
1	ΔF_O	m_{11}	m_{12}	m_{13}					
2	ΔF_p				m_{24}	m_{25}	m_{26}		
3	ΔF_S							m_{37}	m_{38}
4	ΔF_d								m_{49}
5	$\Delta L T_O$	m_{51}	m_{52}	m_{53}					
6	$\Delta L T_p$				m_{64}	m_{65}	m_{66}		
7	$\Delta L T_S$						m_{77}	m_{78}	



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FIG.30

